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[Finite element visualization of fatigue crack closure in plane stress and plane strain](#) - group of 3 »

RC McClung, BH Thacker, S Roy - International Journal of Fracture, 1991 - Springer

Finite element visualization of fatigue crack closure in plane stress and plane strain. RC McClung, BH Thacker, S Roy International Journal of Fracture 50:11, 27 ...

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[The Influence of Applied Stress, Crack Length, and Stress Intensity Factor on Crack Closure](#) - group of 2 »

RC McClung - Metallurgical Transactions A, 1991 - csa.com

The Influence of Applied Stress, Crack Length, and Stress Intensity Factor on Crack Closure. RC McClung Metallurgical Transactions A 22:77, 1559-1571, 7/1991. ...

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[\[CITATION\] Finite Element Analysis of Specimen Geometry Effects on Fatigue Crack Closure](#)

RC McClung - FATIGUE AND FRACTURE OF ENGINEERING MATERIALS AND STRUCTURES, 1994 - FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURE LTD

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DH Lee, SW Nam, SJ Choe - Scripta Materialia, 1999 - ingentaconnect.com
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lamellar structure. Authors: Lee DH; Nam SW; Choe SJ. Source ...
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S Knecht, LR Fox - IEEE Transactions on Components Hybrids and Manufacturing ..., 1990 - ieeexplore.ieee.org
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S Zhu, M Mizuno, Y Kagawa, J Cao, Y Nagano, H Kaya - J. Am. Ceram. Soc., 1999 - ingentaconnect.com
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Creep-fatigue behavior of directionally solidified and single crystal intermetallic Ni 3 Al (B, Hf)

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R BELLOWS, E SCHWARZKOPF, J TIEN - Metallurgical Transactions A-Physical Metallurgy and ..., 1988 - csa.com
Creep-fatigue behavior of directionally solidified and single crystal
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LJ Chen, G Yao, JF Tian, ZG Wang, HY Zhao - International Journal of Fatigue, 1998 - ingentaconnect.com
... Fatigue and creep-fatigue behavior of a nickel-base superalloy at 850 °C
C. Authors: Chen LJ 1 ; Yao G.; Tian JF; Wang ZG; Zhao HY. ...
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1 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(63.03 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

2 Toward an engineering discipline for grammarware

Paul Klint, Ralf Lämmel, Chris Verhoef

July 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: [pdf\(710.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Grammarware comprises grammars and all grammar-dependent software. The term *grammar* is meant here in the sense of all established grammar formalisms and grammar notations including context-free grammars, class dictionaries, and XML schemas as well as some forms of tree and graph grammars. The term *grammar-dependent software* refers to all software that involves grammar knowledge in an essential manner.

Archetypal examples of grammar-dependent software are parsers, program converters ...

Keywords: Grammarware, automated software engineering, best practices, generic language technology, grammar-dependent software, grammars, language processing, metamodeling, model-driven development, parsers, software evolution, software transformation

3 Crowd and group animation

Daniel Thalmann, Christophe Hery, Seth Lippman, Hiromi Ono, Stephen Regelous, Douglas Sutton

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- 1 Appearance & illumination: Visual simulation of weathering by γ -ton tracing 

 Yanyun Chen, Lin Xia, Tien-Tsin Wong, Xin Tong, Hujun Bao, Baining Guo, Heung-Yeung Shum

July 2005 **ACM Transactions on Graphics (TOG)**, Volume 24 Issue 3

Publisher: ACM Press

Full text available:  pdf(696.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Weathering modeling introduces blemishes such as dirt, rust, cracks and scratches to virtual scenery. In this paper we present a visual stimulation technique that works well for a wide variety of weathering phenomena. Our technique, called γ -ton tracing, is based on a type of aging-inducing particles called γ -tons. Modeling a weathering effect with γ -ton tracing involves tracing a large number of γ -tons through the scene in a way similar to photon tracing and then generat ...

Keywords: appearance modeling, material models, rendering, texturing

- 2 Simulation: Rendering cracks in Batik 

 Brian Wyvill, Kees van Overveld, Sheelagh Carpendale

June 2004 **Proceedings of the 3rd international symposium on Non-photorealistic animation and rendering**

Publisher: ACM Press

Full text available:  pdf(568.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present an algorithm for simulating the cracks found in Batik wax painting and dyeing technique used to make images on cloth. The algorithm produces cracks similar to those found in batik due to the wax cracking in the dyeing process. The method is unlike earlier simulation techniques used in computer graphics, in that it is based on the Distance Transform algorithm rather than on a physically based simulation such as using spring mass meshes or finite element methods. Such methods can be dif ...

Keywords: Non-Photorealistic Rendering, batik, cracking, distance transform

- 3 Natural phenomena: A hybrid algorithm for modeling ice formation 

 Theodore Kim, Michael Henson, Ming C. Lin

August 2004 **Proceedings of the 2004 ACM SIGGRAPH/Eurographics symposium on Computer animation**

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1 Natural phenomena: Visual simulation of ice crystal growth

Theodore Kim, Ming C. Lin
July 2003 **Proceedings of the 2003 ACM SIGGRAPH/Eurographics symposium on Computer animation SCA '03**
Publisher: Eurographics Association

Full text available: pdf(8.85 MB) Additional Information: full citation, abstract, references, citations, index terms

The beautiful, branching structure of ice is one of the most striking visual phenomena of the winter landscape. Yet there is little study about modeling this effect in computer graphics. In this paper, we present a novel approach for visual simulation of ice growth. We use a numerical simulation technique from computational physics, the "phase field method," and modify it to allow aesthetic manipulation of ice crystal growth. We present acceleration techniques to achieve interactive simulation p ...

2 Texture mapping and synthesis: Synthesizing bark

Sylvain Lefebvre, Fabrice Neyret
July 2002 **Proceedings of the 13th Eurographics workshop on Rendering EGRW '02**
Publisher: Eurographics Association

Full text available: pdf(4.78 MB) Additional Information: full citation, abstract, references

Despite the high quality reached by today's CG tree generators, there exists no realistic model for generating the appearance of bark: simple texture maps are generally used, showing obvious flaws if the tree is not entirely painted by an artist. Beyond modeling the appearance of bark, difficulties lies in adapting the bark features to the age of each branch, ensuring continuity between adjacent parts of the tree, and possibly ensuring continuity through time. We propose a model of bark generatio ...

Keywords: natural phenomena, physically based modeling, texture synthesis, tree rendering

3 ISSAC 2005 poster abstracts: The package CRACK for solving large overdetermined systems

Thomas Wolf
September 2005 **ACM SIGSAM Bulletin**, Volume 39 Issue 3
Publisher: ACM Press

Full text available: pdf(157.55 KB) Additional Information: full citation, abstract


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1 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn

 August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press

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The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel systems ...

2 Toward an engineering discipline for grammarware

Paul Klint, Ralf Lämmel, Chris Verhoef

 July 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM).**
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Grammarware comprises grammars and all grammar-dependent software. The term *grammar* is meant here in the sense of all established grammar formalisms and grammar notations including context-free grammars, class dictionaries, and XML schemas as well as some forms of tree and graph grammars. The term *grammar-dependent software* refers to all software that involves grammar knowledge in an essential manner.

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Keywords: Grammarware, automated software engineering, best practices, generic language technology, grammar-dependent software, grammars, language processing, metamodeling, model-driven development, parsers, software evolution, software transformation

3 Crowd and group animation

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- 1** [The development of three-dimensional spatial modeling techniques for the construction planning of nuclear power plants](#)

 Harold J. Borkin, Jonn F. McIntosh, James A. Turner
August 1978 **ACM SIGGRAPH Computer Graphics , Proceedings of the 5th annual conference on Computer graphics and interactive techniques SIGGRAPH '78**, Volume 12 Issue 3

Publisher: ACM PressFull text available:  pdf(584.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The results are presented of the first phase of a research project on the application of spatial modeling techniques to the process of planning and executing the construction of a nuclear power plant. A computer modeling technique, based on sets of polyhedra and spatial operations, was developed and applied to modeling the components of a nuclear power plant. The objectives of the modeling are: to store and retrieve information about the various systems in the facility; to produce drawings ...

Keywords: Computer modeling, Digitizing, Geometric modeling, Polyhedra, Relational database, Spatial modeling

- 2** [Diagnosis of power plant faults using qualitative models and heuristic rules](#)

 Irina Obreja
June 1990 **Proceedings of the 3rd international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1 IEA/AIE '90**

Publisher: ACM PressFull text available:  pdf(553.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents results obtained in an AI research effort in the industrial field of Nuclear Power Plants (NPP): malfunction diagnosis of the Emergency Feedwater System (EFWS) of a NPP. An expert system was developed which utilizes qualitative techniques for modeling the system and heuristic rules for generating causal explanations of an observed malfunction. The operation of the system, the model and the global inference mechanism are discussed. Another purpose of the paper is to prese ...

- 3** [Hydrodynamic simulation of movement of larval fishes in western Lake Erie and their vulnerability to power plant entrainment](#)

John F. Paul, Richard L. Patterson

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21 Information processing model of information technology adaptation: an intra-
 organizational diffusion perspective
 Randolph B. Cooper, Richard A. Wolfe
 February 2005 **ACM SIGMIS Database**, Volume 36 Issue 1
Publisher: ACM Press
 Full text available: pdf(603.74 KB) Additional Information: full citation, abstract, references, index terms

Appropriate information technology (IT) diffusion facilitates the achievement of expected return on IT investments. The purpose of this study is to advance IT diffusion research by employing information processing theory as a lens with which to examine the adaptation (design, development, and installation) process. This is in contrast to much of the IT diffusion research, which focuses on factors affecting usage of an IT by members of an organization. We link information processing theory to the ...

Keywords: IT implementation, imaging technology, information processing, innovation diffusion, media richness

22 Interactive constraint-based solid modeling using allowable motion
 Mingxian Fa, Terrence Fernando, Peter M. Dew
 June 1993 **Proceedings on the second ACM symposium on Solid modeling and applications**
Publisher: ACM Press
 Full text available: pdf(1.01 MB) Additional Information: full citation, references, citations, index terms

Keywords: 3D Interaction Techniques, Constraint-based Solid Modeling, Geometric Reasoning, Virtual Reality

23 Special issue: AI in engineering
 D. Sriram, R. Joobhani
 April 1985 **ACM SIGART Bulletin**, Issue 92
Publisher: ACM Press
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1 Cursor control and pointing devices: Accuracy and frequency analysis of multitouch



 [Interfaces for individuals with Parkinsonian and essential hand tremor](#)

Eric J. Frett, Kenneth E. Barner

October 2005 **Proceedings of the 7th international ACM SIGACCESS conference on Computers and accessibility Assets '05**

Publisher: ACM Press

Full text available:  [pdf\(166.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this study, the accuracy of an optical mouse, optical trackball, isotonic joystick, and a FingerWorks MultiTouch Surface (MTS) are compared for users suffering from Parkinsonian tremor and essential tremor. Using a data acquisition program, *WinFitts*, created at the University of Oregon's HCI Lab, data collected from five subjects with Parkinsonian tremor, five with essential tremor, and eleven with no tremor is analyzed and compared. Both *temporal* and *spatial* analyses are ...

Keywords: Fitts' law, Parkinson's disease, essential tremor, human-computer interaction, multitouch surfaces

2 Programming languages for computer music synthesis, performance, and



 [composition](#)

Gareth Loy, Curtis Abbott

June 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 2

Publisher: ACM Press

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The development of formal, descriptive, and procedural notations has become a practical concern within the field of music now that computers are being applied to musical tasks. Music combines the real-time demands of performance with the intellectual demands of highly developed symbolic systems that are quite different from natural language. The richness and variety of these demands makes the programming language paradigm a natural one in the musical application of computers. This paradigm ...

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James Aweya, Michel Ouellette, Delfin Y. Montuno, Kent Felske

January 2004 **International Journal of Network Management**, Volume 14 Issue 1



model cracks in a casing + transient behavior

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R Darveaux - ELECTRONIC COMPONENTS AND TECHNOLOGY CONFERENCE, 2000 - amker.com

... In each case, the crack growth data were fit ... Crack Growth: $da/dN = K_3 \Delta W_{ave} K$

4 ... The finite element model configuration, simulation method, and constitutive ...

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... scattering of Rayleigh-Lamb waves by a surface-breaking crack: Comparison of numerical simulation ...

SW Liu, SK Datta, TH Ju - Journal of Nondestructive Evaluation, 1991 - Springer

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Finite element simulation of ring expansion and fragmentation: The capturing of length and time ... - group of 7 »

A Pandolfi, P Krystl, M Ortiz - International Journal of Fracture, 1999 - Springer

... We begin by considering the general case of a ... this operation are recorded and the solid model is updated ... of the separation and closure of the incipient cracks. ...

Cited by 38 - Web Search · BL Direct

Simulation of damage-permeability coupling in hygro-thermo-mechanical analysis of concrete at high ... - group of 3 »

D Gawin, F Pesavento, BA Schrefler - Communications in Numerical Methods in Engineering, 2002 - doi.wiley.com

... For the case B the first damaged zone appears ... hygrothermal state and material damage (cracks development) has been introduced into our numerical model for the ...

Cited by 13 - Web Search · BL Direct

Real-time simulation of deformation and fracture of stiff materials - group of 9 »

M Muller, L McMillan, J Dorsey, R Jagnow - EUROGRAPHICS 2001 Computer Animation and Simulation Workshop, 2001 - graphics.csail.mit.edu

... not as "banded" as in the 2D case, which makes ... that we need for our fast crack propagation procedure ... the next section, we describe the continuous model that we ...

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A Schubert, R Dudek, E Auerswald, A Golthardt, B ... - ELECTRONIC COMPONENTS AND TECHNOLOGY CONFERENCE, 2003 - ieeexplore.ieee.org

... In the case of SnAgCu solder joints, the damage ... might vary, based on either mechanical cracks or electrical ... creep data to hyperbolic sine model (equation (Z ...

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Modeling of fatigue crack propagation - group of 2 »

Y Jiang, M Feng - Journal of Engineering Materials and Technology, 2004 - link.aip.org